

FIG. 1

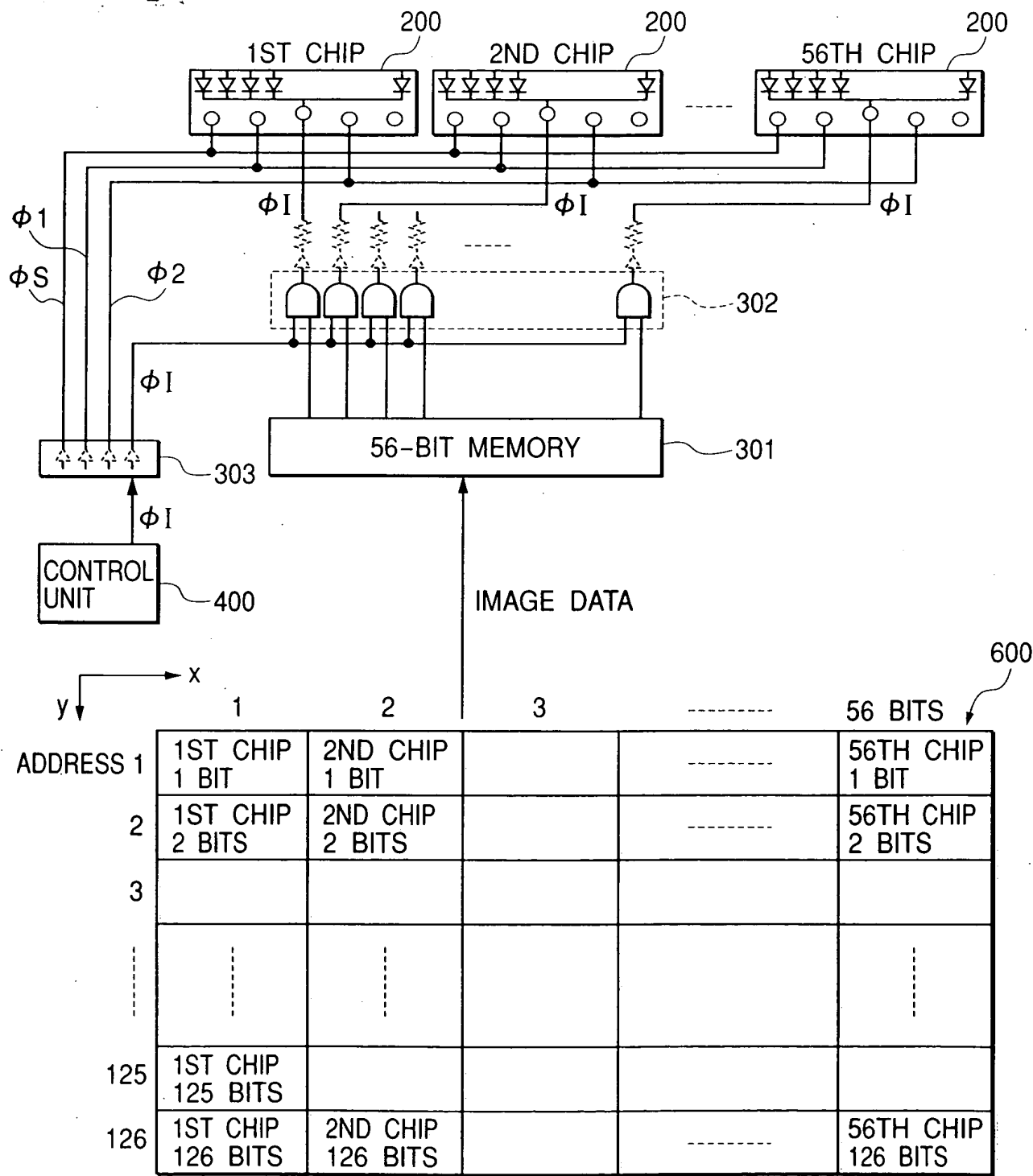


FIG. 2

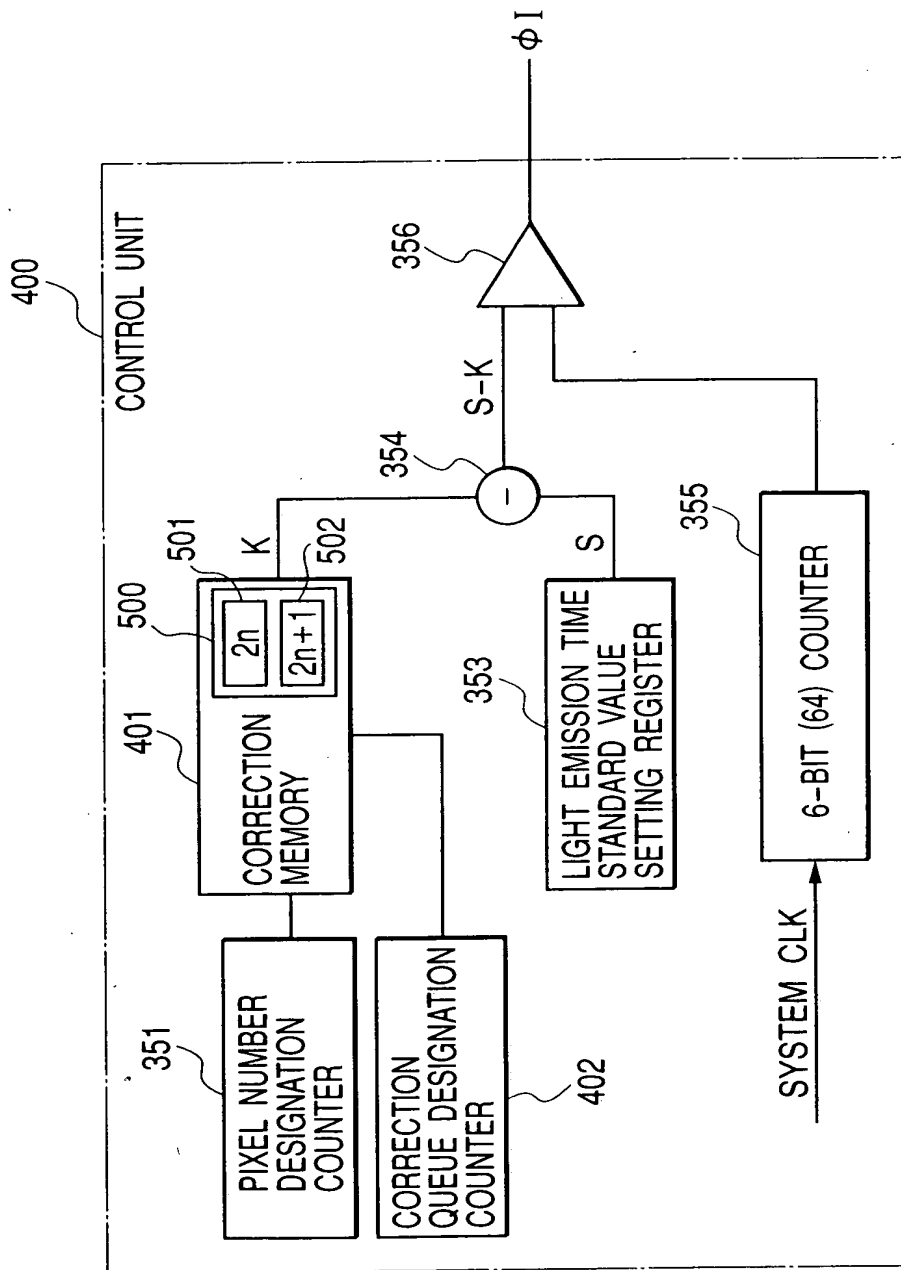
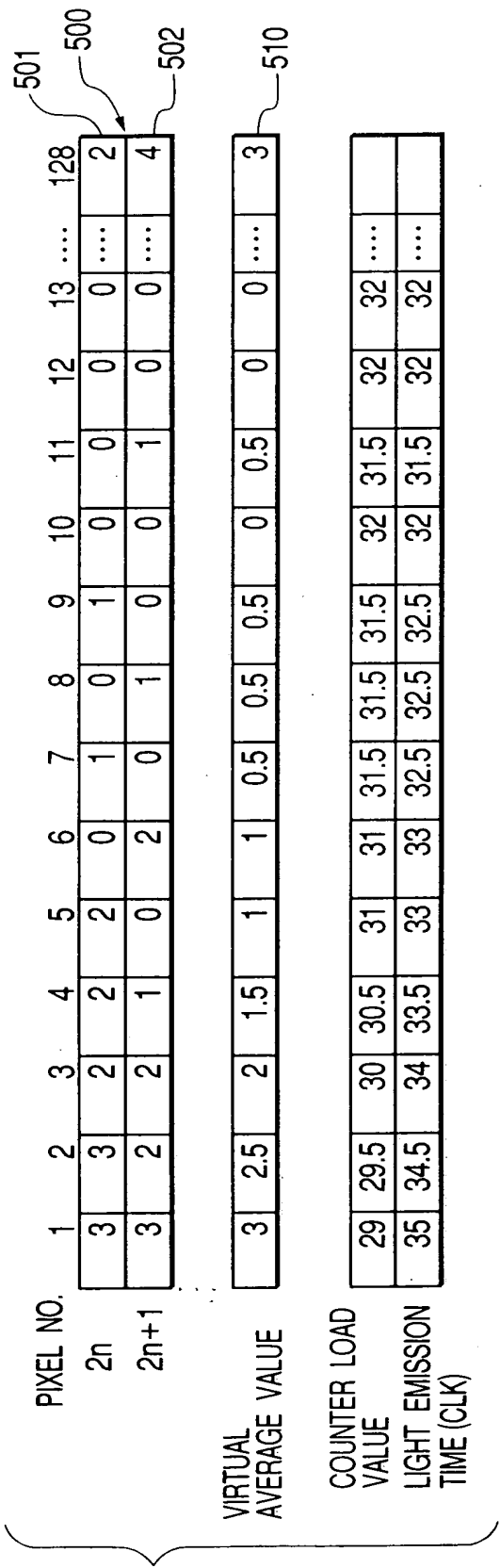
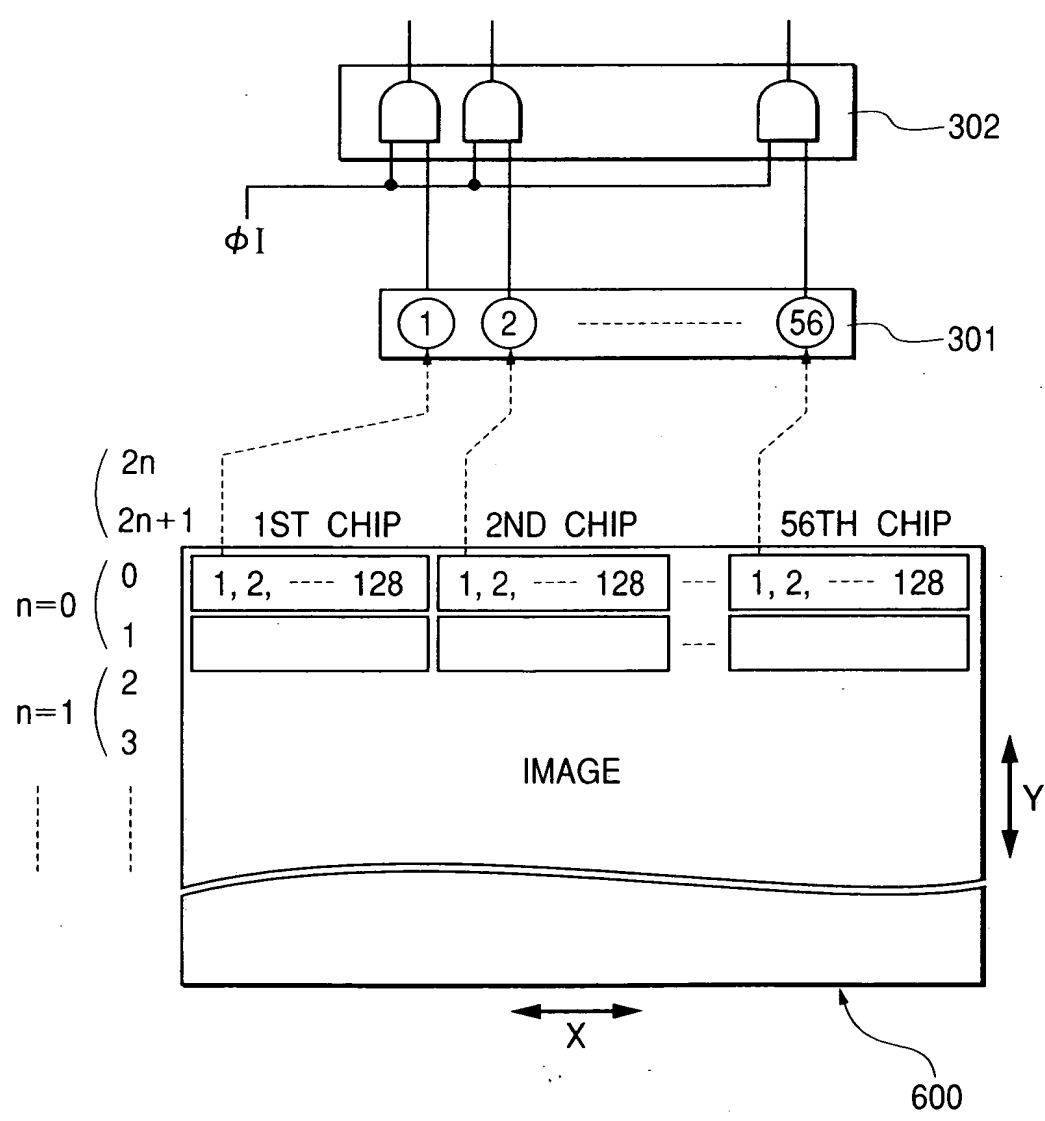


FIG. 3



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FIG. 5



Approved for Release

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FIG. 7

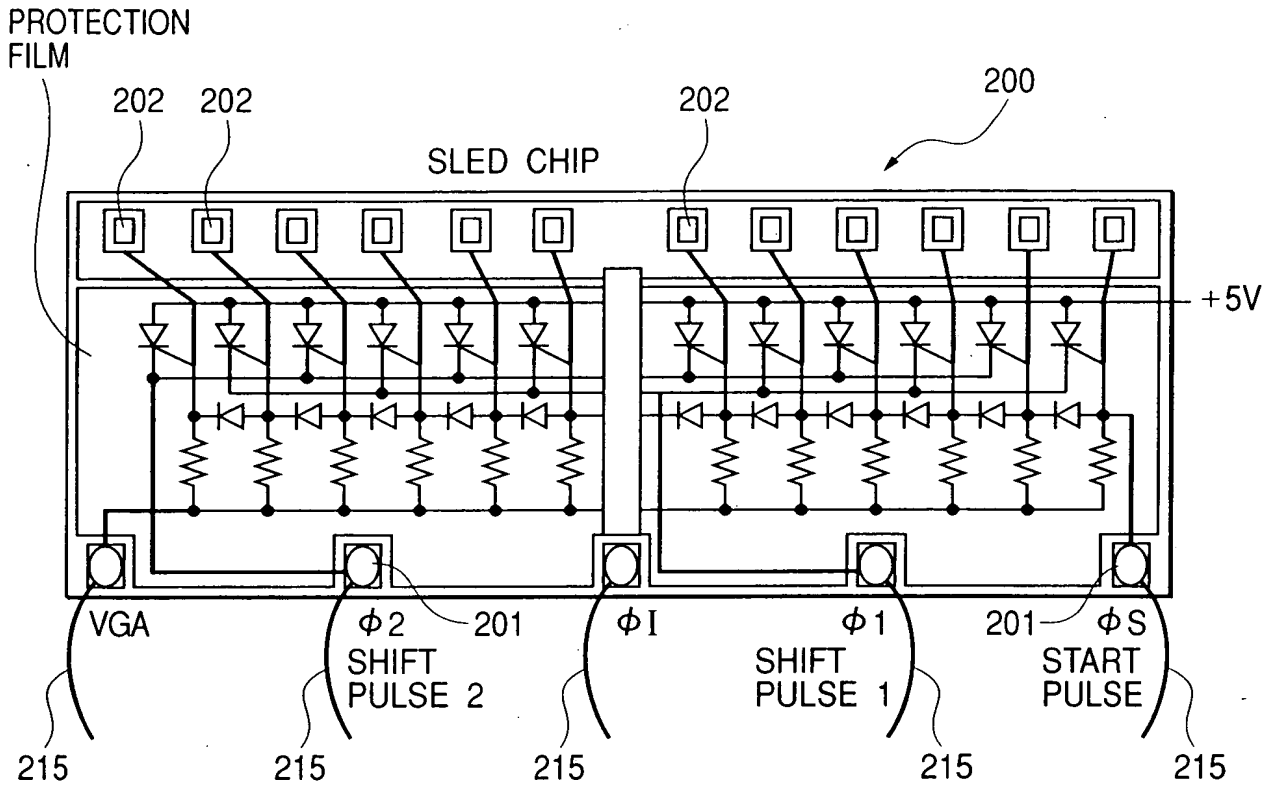
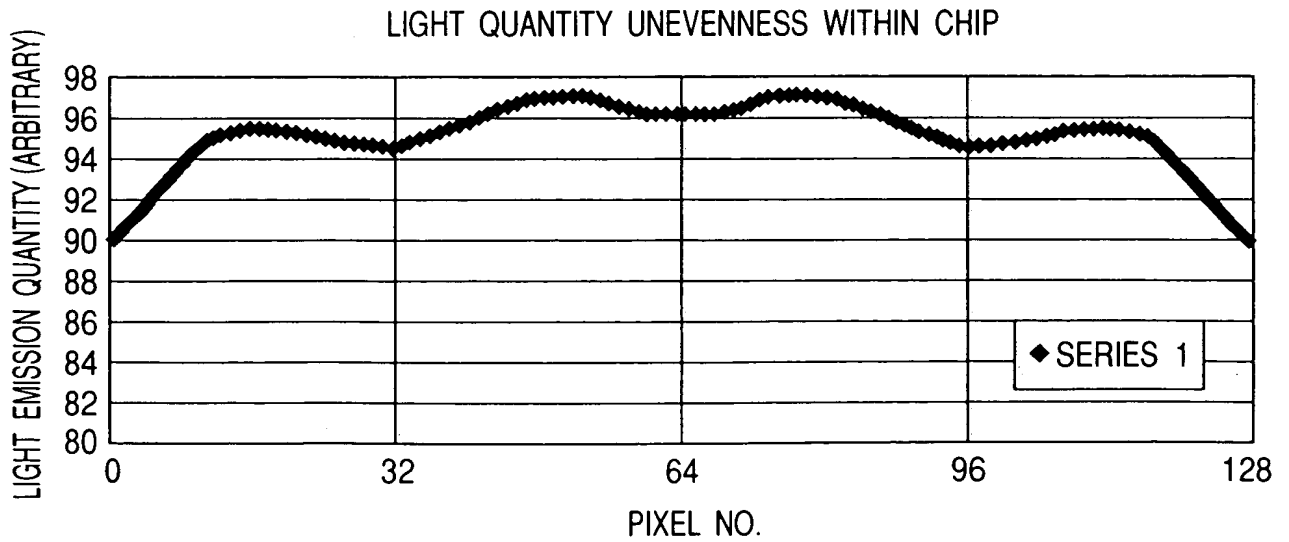


FIG. 8



610

FIG. 9

IDEAL COUNT VALUE SUMMATION OF TWO QUEUES	$2n$ ACTUAL COUNT VALUE	$2n+1$ ACTUAL COUNT VALUE	$2n$ CORRECTION VALUE	$2n+1$ CORRECTION VALUE	ACTUAL COUNT VALUE SUMMATION OF TWO QUEUES	CORRECTION VALUE AVERAGE OF TWO QUEUES	LIGHT QUANTITY RESIDUAL ERROR RATIO
60.34579924	30	30	-2	-2	60	-2	-0.57303
60.6284033	30	31	-2	-1	61	-1.5	0.612909
60.92772837	30	31	-2	-1	61	-1.5	0.118619
61.24210197	31	30	-1	-2	61	-1.5	-0.39532
61.56927327	31	31	-1	-1	62	-1	0.699581
61.90649968	31	31	-1	-1	62	-1	0.151035
62.25065216	31	31	-1	-1	62	-1	-0.40265
62.59833552	31	32	-1	0	63	-0.5	0.641654
62.94601888	31	32	-1	0	63	-0.5	0.085758
63.29017137	32	31	0	-1	63	-0.5	-0.45848
63.62739777	32	32	0	0	64	0	0.5856
63.95456908	32	32	0	0	64	0	0.071036
64.04467636	32	32	0	0	64	0	-0.06976
64.11973512	32	32	0	0	64	0	-0.18674
64.17807286	32	32	0	0	64	0	-0.27747
64.21865966	32	32	0	0	64	0	-0.34049
64.24114776	32	32	0	0	64	0	-0.37538
64.24588492	32	32	0	0	64	0	-0.38272
64.23390106	32	32	0	0	64	0	-0.36414
...



Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

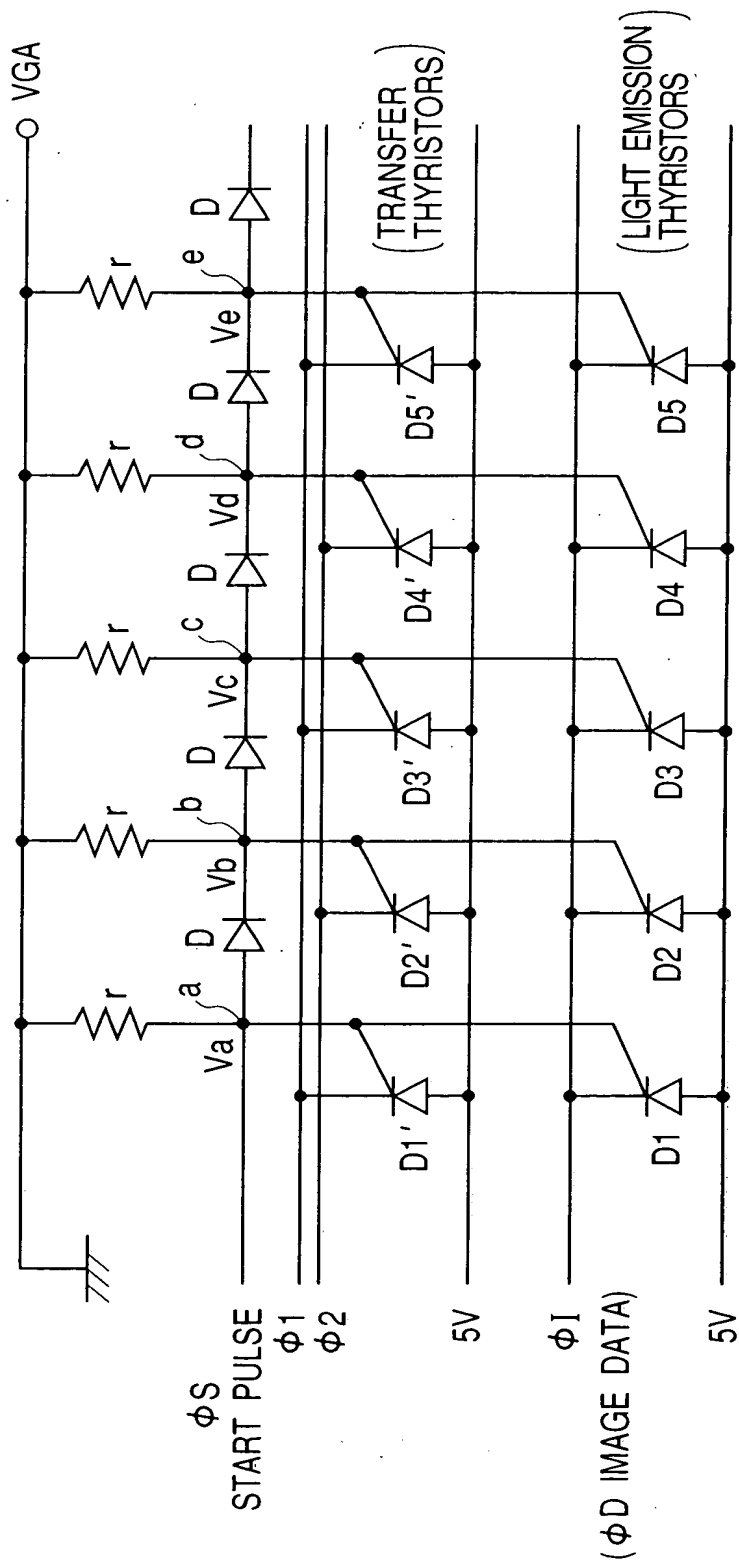
FIG. 11

600

BIT NO.	LIGHT QUANTITY (μW)	IDEAL COUNT VALUE	ACTUAL COUNT VALUE	CORRECTION VALUE	LIGHT QUANTITY RESIDUAL ERROR RATIO
1	89.6936586	30.1729	30	-2	-0.57303
2	90.113701	30.3142	30	-2	-1.036483
3	90.5585963	30.46386	30	-2	-1.52267
4	91.0258586	30.62105	31	-1	1.2375441
5	91.5121425	30.78464	31	-1	0.6995807
6	92.0133716	30.95325	31	-1	0.1510347
7	92.5248951	31.12533	31	-1	-0.40265
8	93.0416667	31.29917	31	-1	-0.955833
9	93.5584382	31.47301	31	-1	-1.502905
10	94.0699617	31.64509	32	0	1.1215464
11	94.5711908	31.8137	32	0	0.5856003
12	95.0574747	31.97728	32	0	0.0710362
13	95.1914037	32.02234	32	0	-0.069758
14	95.3029657	32.05987	32	0	-0.186737
15	95.3896747	32.08904	32	0	-0.277467
16	95.45	32.10933	32	0	-0.340492
17	95.4834247	32.12057	32	0	-0.375379
18	95.4904657	32.12294	32	0	-0.382725
19	95.4726537	32.11695	32	0	-0.36414
∴	∴	∴	∴	∴	∴
∴	∴	∴	∴	∴	∴

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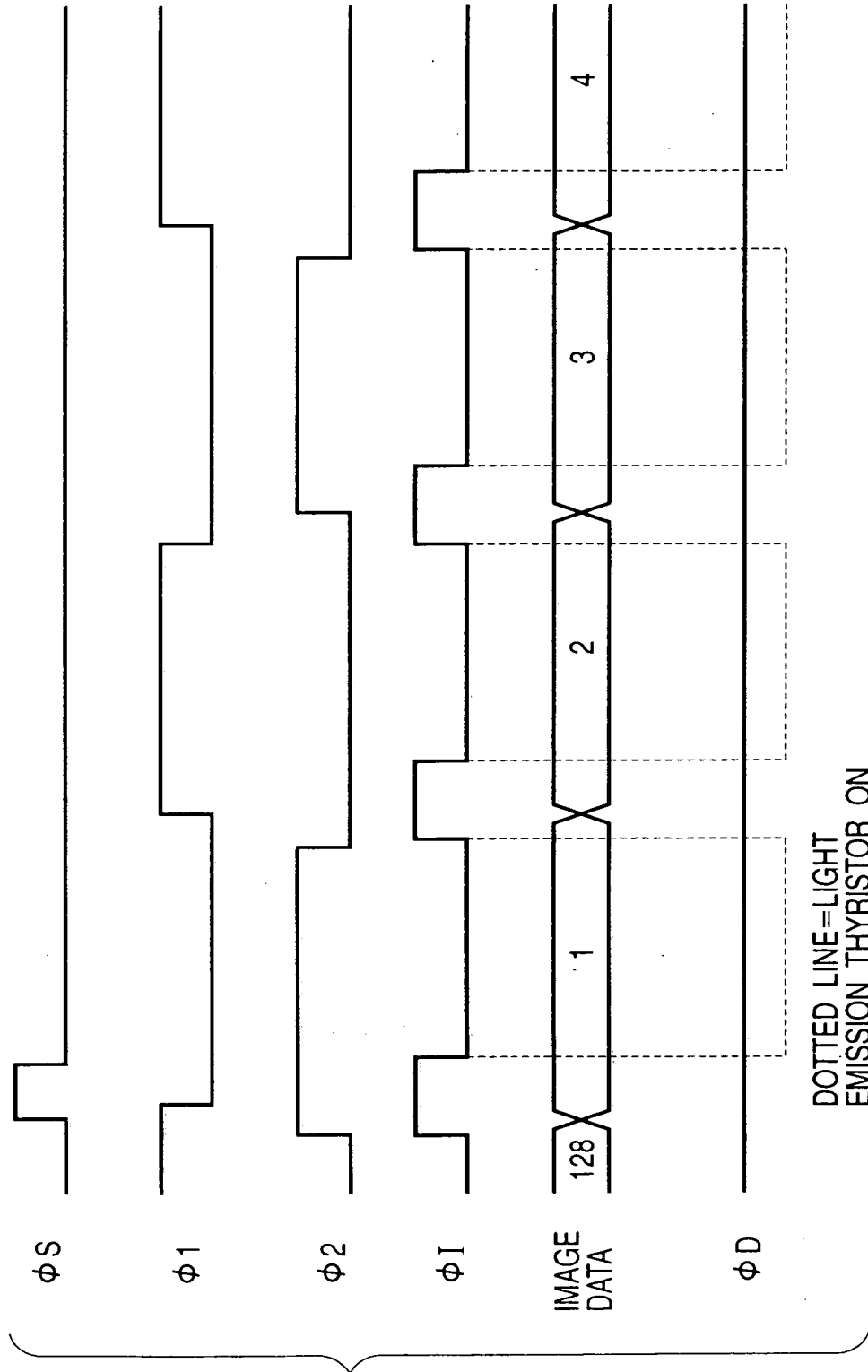
FIG. 13



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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FIG. 14



000000-1229900

FIG. 15

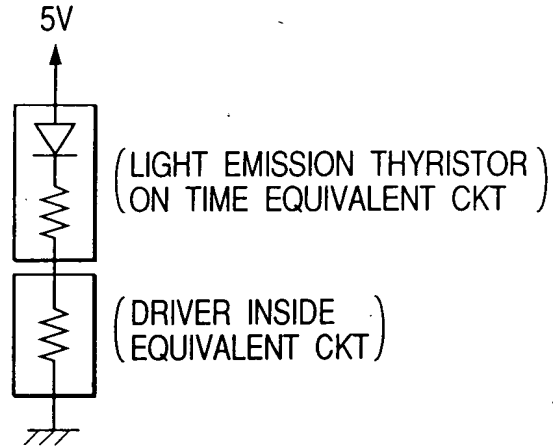


FIG. 16

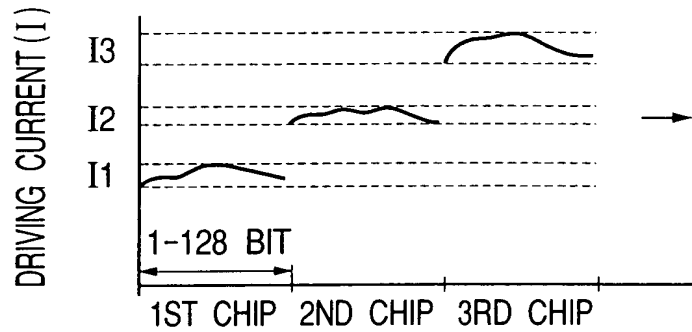


FIG. 17

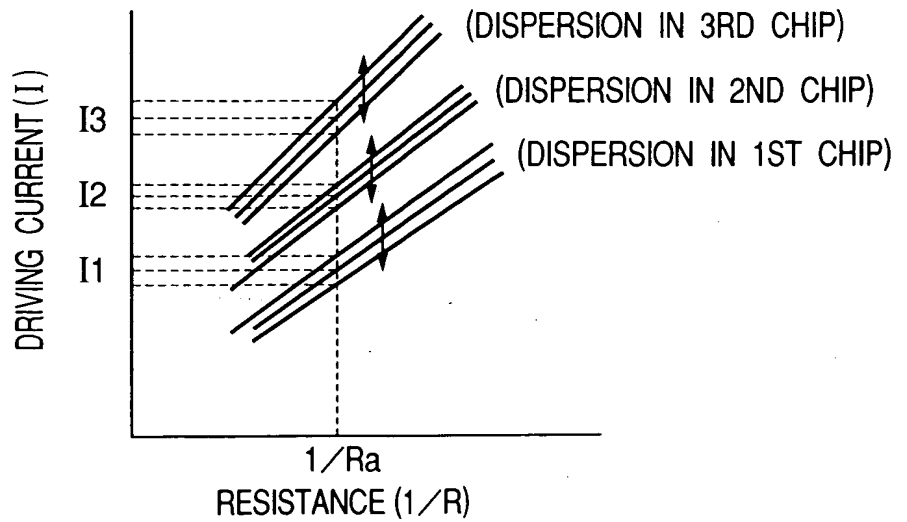


FIG. 18

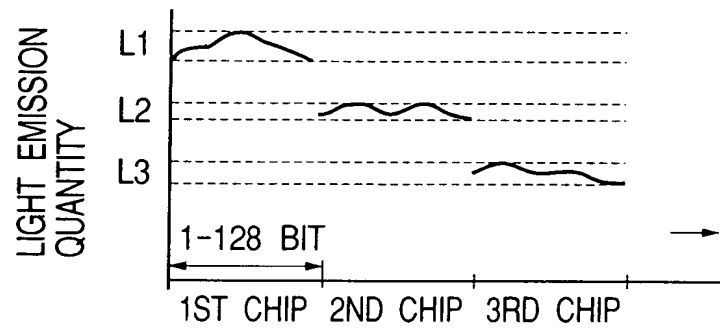


FIG. 19

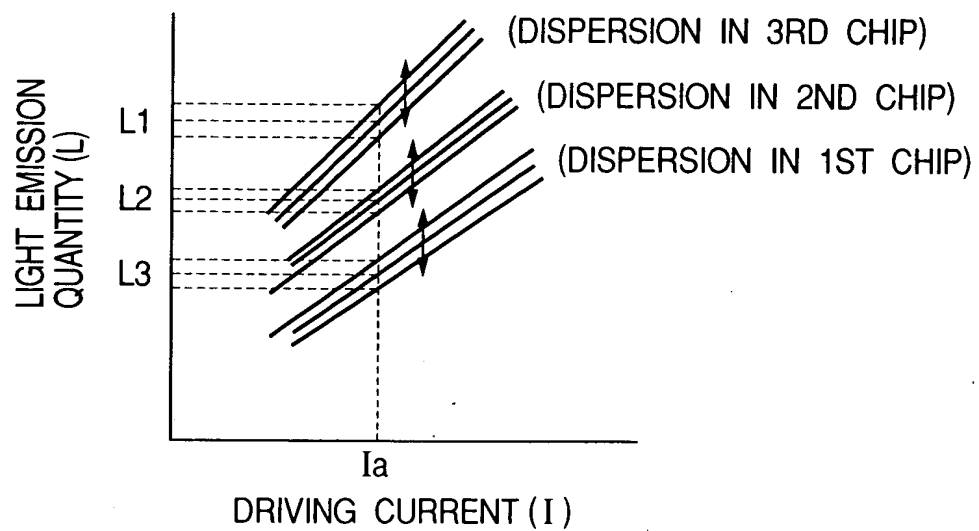


FIG. 20

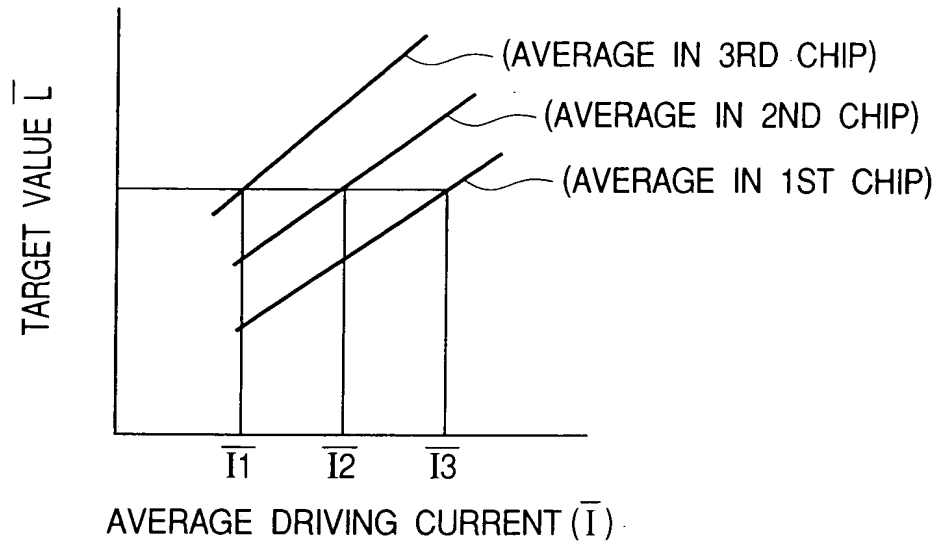


FIG. 21

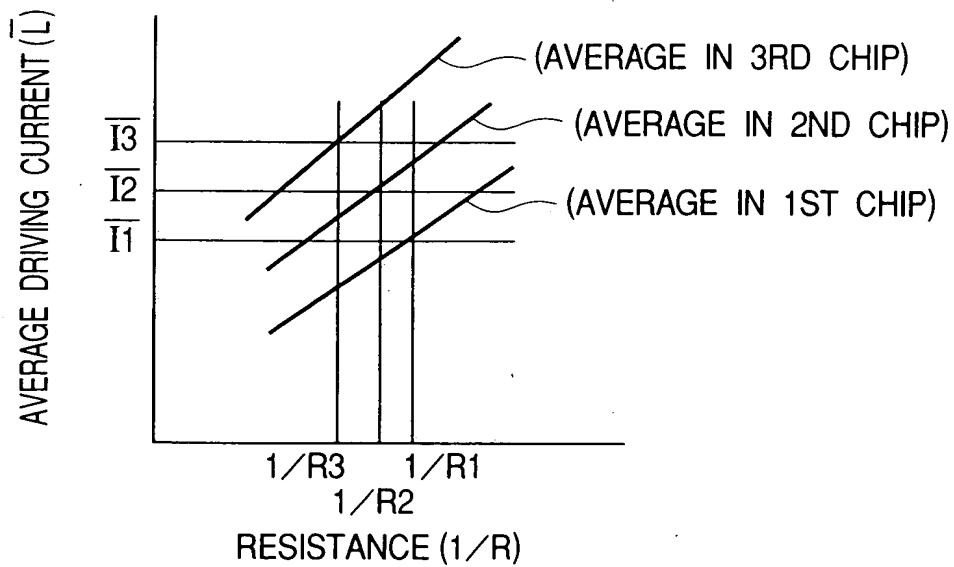


FIG. 22

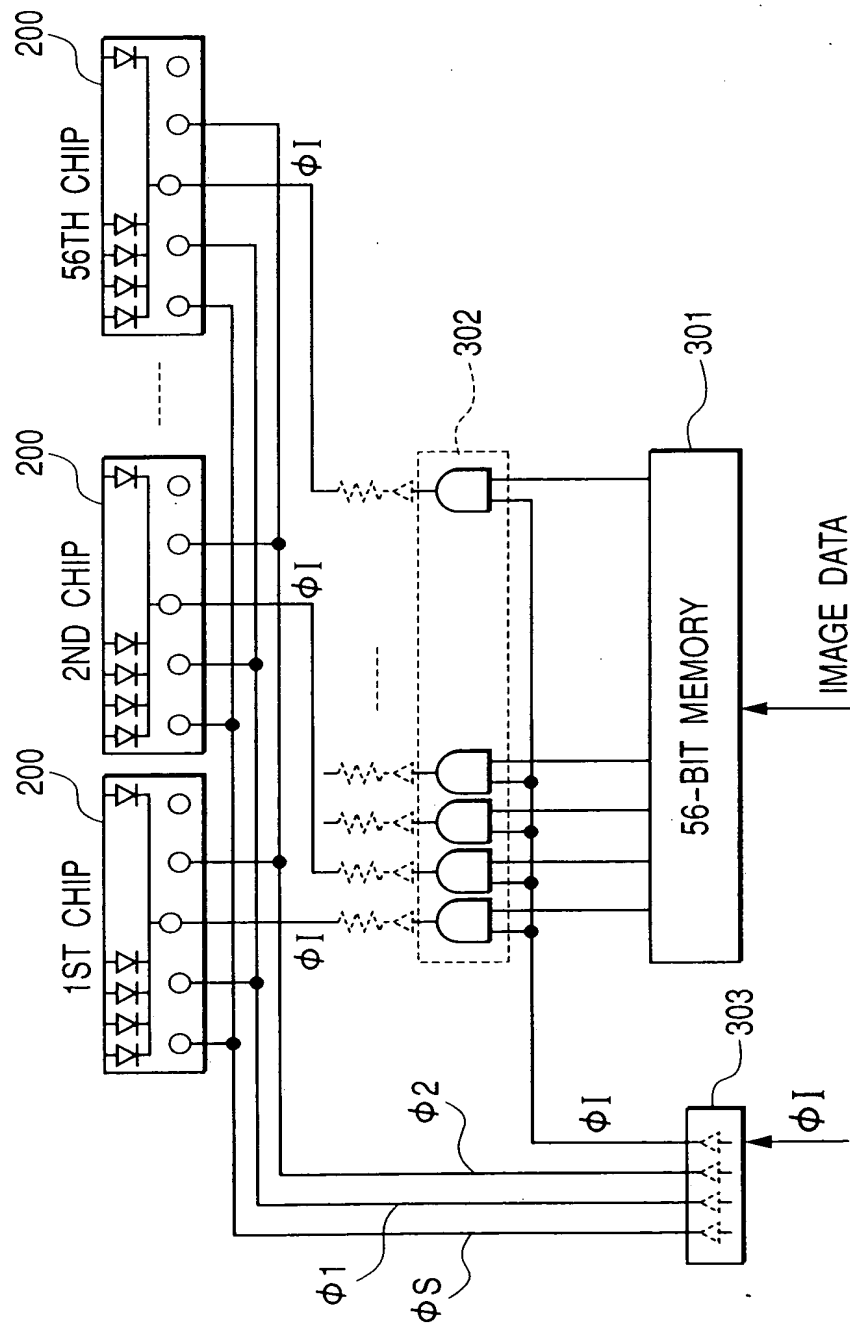


FIG. 23A

PIXEL NO.	1	2	3	4	-----	125	126	127	128
CORRECTION VALUE (CLK)	3	2	1	0	-----	0	1	2	3

COUNTER LOAD VALUE	29	30	31	32	-----	32	31	30	29
LIGHT EMISSION TIME (CLK)	35	34	33	32	-----	32	33	34	35

FIG. 23B

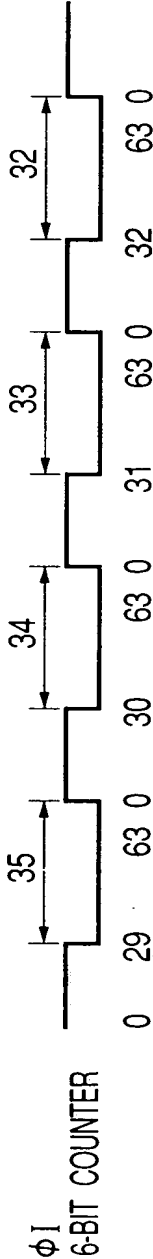


FIG. 24

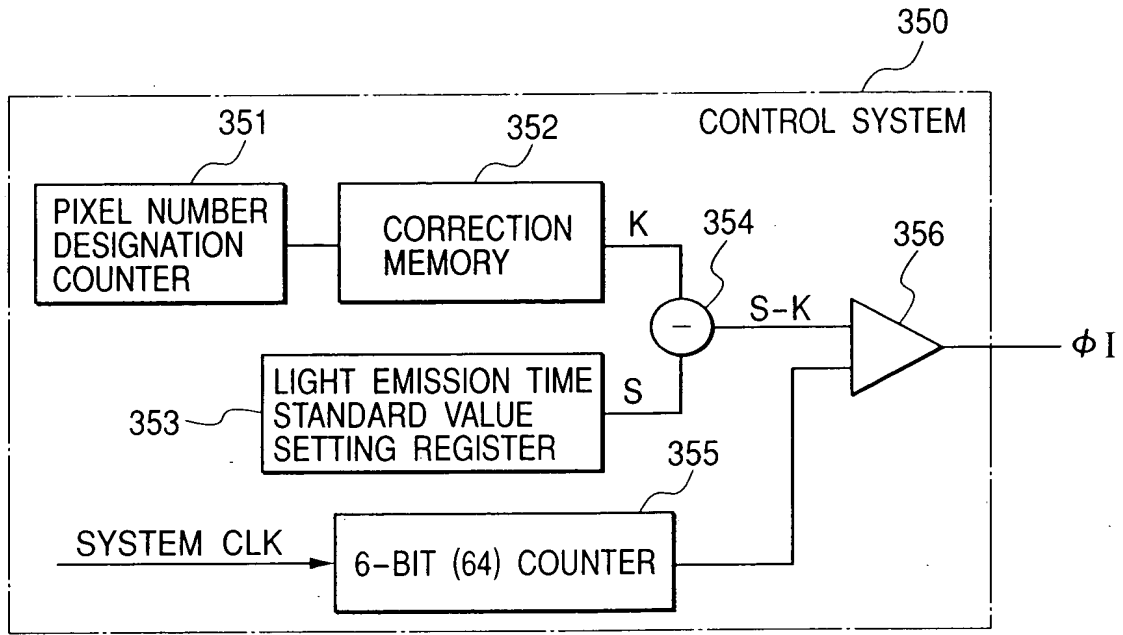


FIG. 25

